

## **ABSTRACT OF THE DISCLOSURE**

A semiconductor cleaning method, including providing a semiconductor wafer, forming a first layer of oxide over the semiconductor wafer, forming a floating gate layer over the first layer of oxide, forming a second layer of oxide over the floating gate layer, etching the first layer of oxide, the floating gate layer, and the second layer of oxide to form a gate structure, cleaning the semiconductor wafer including the gate structure using an ozonated de-ionized (DI) water, further cleaning of the ozonated water-cleaned semiconductor wafer using a first cleaning solution, and additional cleaning of the further cleaned semiconductor wafer using a second cleaning solution.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
[www.finnegan.com](http://www.finnegan.com)